

# The Cosmic Microwave Background Radiation Has Its Origin in nether Paradise

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**Abstract**—This paper argues that the cosmic microwave background (photon) radiation has its origin in nether Paradise. Furthermore, we are informed that all physical-energy and cosmic-force has their origin there also.

Probably the most important argument to make is that the cosmic background radiation comes from the entire Planck (PV) state; that is from the thermal agitation of every Planck particle (PP) making up that state.

**Index Terms**—Cosmic Microwave Background Radiation, nether Paradise, Planck Vacuum Theory.

## I. INTRODUCTION

THE spacetime of the PV theory consists of a continuum pervaded by a degenerate collection of PP cores ( $\pm e_*$ ,  $m_*$ ) whose vacuum energy is many orders-of-magnitude greater than ordinary free-space particle energies. The PV theory shows that these low energy particles are coupled to this high-energy quasi-continuum via the spin angular momentum common to both kinds of particles. The problem that this paper addresses is finding the origin of the PP and PV energies.

The theoretical foundation [1]–[5] of the PV rests upon the unification of the Einstein, Newton, and Coulomb superforces:

$$\frac{c^4}{G_d} \left( = \frac{m_* c^2}{r_*} \right) = \frac{m_*^2 G}{r_*^2} = \frac{e_*^2}{r_*^2} \rightarrow r_* m_* c = \frac{e_*^2}{c} (= \hbar) \quad (1)$$

where the ratio  $c^4/G_d$  is the curvature superforce that appears in the Einstein field equations.  $G$  is Newton's gravitational constant,  $c$  is the speed of light,  $m_*$  and  $r_*$  are the Planck mass and length respectively [6, p.1234], and  $e_*$  is the massless bare (or coupling) charge. The Planck time is  $t_* = r_*/c$  [6, p.1233]. The fine structure constant is given by the ratio  $\alpha \equiv e^2/e_*^2$ , where  $e$  is the observed electronic charge magnitude. The ratio  $e_*^2/c$  to the right of the arrow is the spin coefficient for the PP, the proton, and the electron cores, where  $\hbar$  is the reduced Planck constant. One of the  $e_*$ s in  $e_*^2$  belongs to the PP under consideration and the other to any one of the remaining PPs making up the PV state.

The two gravity constants can be obtained from the three superforces in (1) and are [7]

$$G_d = \frac{r_* c^2}{m_*} = \frac{e_*^2}{m_*^2} = G \rightarrow \frac{e_*^2}{c} (= \hbar). \quad (2)$$

The proton and electron cores and their antiparticles are ( $\pm e_*$ ,  $m_p$ ) and ( $\pm e_*$ ,  $m_e$ ) respectively. It is noted that the Newton constant  $G$  contains charge  $e_*$ , while the Einstein  $G_d$  does not. Thus the charged  $G$  responds to photons, while the uncharged  $G_d$  does not. The gravitational superforce equation for  $G$  is found in (1). The corresponding equation for  $G_d$

( $m_* c^2/r_*$ ) provides the Einstein curvature force operating on the PV state.

The spin angular momentum ( $e_*^2/c$ ) from (1) is assumed to be transferred to the electron and proton cores via the spin equations

$$r_* m_* c = \frac{e_*^2}{c} = r_e m_e c = r_p m_p c. \quad (3)$$

Since the mass  $m_*$  of the Planck particle is nineteen to twenty-two orders of magnitude heavier than the electron ( $m_e$ ) and proton ( $m_p$ ) masses, *there must be something special about the Planck particle*. That something special is a transcendental state described within the Urantia Book [8, p.467],[42:1.1] (Appendix A), and in the following text.

## II. CONCLUSIONS AND COMMENTS

The PP cores from the first paragraph in the Introduction are blackbody radiators [9], the degenerate collection of which occupy the PV state. So the PV state is a lumpy seven-dimensional quasi-continuum that fills the invisible vacuum state; furthermore the PV theory up to this point in time has derived the superforces in equation (1) without specifying their origin. That problem is overcome in Appendix A, Appendix B, Appendix C and in the flowing text. The transcendental state mentioned at the conclusion of Section I consists of the four paragraphs [42:1.1], [42:1.2], [42:1.3], and [11:5.1] found in Appendix A. In this series of paragraphs the Planck particle (the ultimaton) is described in all its splendor.

The first sentence in paragraph [42:1.3] claims that there is innate in matter and present in universal space a form of energy not known on Urantia (planet earth). However, the physics in that claim provides a perfect description of the PV state in equation (1). Therefore that UB description is clearly true for the PV theory also. However, the derivation of the PV theory in (1) was accomplished considerably before its connection to the UB was recognized.

The last phrase in paragraph [42:1.2] describing the ultimaton as the first measurable form of energy contains two interesting parameters, *ultimaton* and *measurable*. The ultimaton is just another name for the Planck particle; and the parameter measurable means *"the ability to express physics in mathematical form."*

It is revealed [11:5.1] *that all the physical-energy and cosmic-force circuits have their origin in nether Paradise*. Thus all of the equations (1)–(3) *have their origin in nether Paradise also*.

Finely, *the PV collection of PP oscillators acts as a global blackbody oscillator and creates the cosmic microwave background radiation*.

## APPENDIX A

### PARADISE FORCES AND ENERGIES

The URANTIA BOOK (UB) is an epochal revelation that was first published (in English) in circa 1955 [8]. It is now published in twenty-nine languages. The previous four paragraphs come directly from the UB source [8, p.467,122]. The notation 42:1.1, for example, reads Paper 42, Section 1, Paragraph 1. The boldfacing below is by the present author.

[42:1.1] **The foundation of the universe is material, but the essence of life is spirit.** The father of spirits is also the ancestor of universes; the eternal Father of the Original Son is also the eternity-source of the original pattern, the Isle of Paradise.

[42:1.2] Matter–energy—for they are but diverse manifestations of the same cosmic reality, as a universe phenomenon is inherent in the Universal Father. . . . Matter may appear to manifest inherent energy and to exhibit self-contained powers, but **the lines of gravity** [equation (2) in the text] involved in the energies concerned in all these physical phenomena are derived from, and are dependent on, Paradise. **The eltimaton, the first measurable form of energy, has Paradise as its nucleus.**

[42:1.3] **There is innate in matter and present in universal space a form of energy not known on Urantia. . . .**

[11:5.1] Concerning nether Paradise we know only that which is revealed; personalities do not sojourn there. It has nothing whatever to do with the affairs of spirit intelligences, . . . **We are informed that all physical-energy and cosmic-force circuits have their origin in nether Paradise . . .**

## APPENDIX B

### THE UB AND WCD

The present author (WCD) has been a student of the UB since circa 1972 and **has always found comparisons between the UB and the PV theory, where applicable, to be in agreement.** However, since the UB does not deal in equations, none of the equations in the PV theory come from the UB.

Furthermore, the birth of the PV theory is solely due to the present author (see [www.planckvacuumDOTcom](http://www.planckvacuumDOTcom)); consequently any errors or imperfections in the PV theory are due to WCD alone.

## APPENDIX C

### CONSTANTS FOR THE PLANCK VACUUM THEORY

$$r_* = 1.616 \times 10^{-33} [cm.]$$

$$m_* = 2.167 \times 10^{-5} [gm.]$$

$$e_* = 5.622 \times 10^{-9} [stat.(esu)] \quad e_*/e = 1.170$$

$$G_d = 6.672 \times 10^{-8} \left[ \frac{dyne.cm.}{gm.^2} \right] = G$$

$$\hbar = 1.054 \times 10^{-27} [erg.sec.] = e_*^2/c$$

$$c = 2.998 \times 10^{10} [cm./sec.]$$

From top to bottom, these equations are assumed to be numbered from C1 to C6.

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